

MILWAUKEE COUNTY SHERIFF'S OFFICE

MILWAUKEE COUNTY, WISCONSIN



BID SPECIFICATION
County Correctional Facility South (CCFS)
IP Surveillance Camera System Upgrade

1 Introduction

The Milwaukee County Sheriff's Office is seeking bids from qualified vendors capable of delivering and installing an IP based surveillance video camera solution including hardware, software, installation, configuration, and providing ongoing technical support. This system must be able to operate in a Correctional Facility environment.

Vendors responding to this bid must possess the necessary experience and capability to provide delivery of a surveillance system providing near 100% coverage of the entire CCFS including the grounds and inside multiple buildings.

A previously issued RFI offered the opportunity to attend a walk through and it was indicated that would be the only opportunity for a walk through of the facility.

Milwaukee County reviewed all submitted RFIs and used much of the information obtained to assist in the development of the specifications in this bid.

Only one vendor will be selected for all listed bid items, and will be responsible for the successful implementation of a surveillance system that meets specifications as defined in this bid.

All questions related to this bid document should be directed to Anissa Perkins, Milwaukee County Procurement Office, 901 N. 9th Street, Room 308, Milwaukee, WI 53233 at 414-223-8127.

All information received in response to this bid that is marked Proprietary will be handled accordingly.

Sealed bids for furnishing the following will be received at the office of the Milwaukee County Procurement Office, 901 N. 9th Street, Room 308, Milwaukee, Wisconsin 53233 until 1:30 P.M. on October 4, 2011. Bids will be opened and read the same day at 2:30 P.M. at the Procurement Division Office.

2 Overview

The Camera system upgrade project is envisioned as a long-term strategic initiative for the agency that will increase safety, improve efficiency, and reduce costs associated with monitoring inmates in and around the facility. It is envisioned that approximately 300 cameras will be added to the existing 57 analog cameras in multiple buildings, as well as coverage of the entire outdoor perimeter fence line. The county previously issued an RFI in order to evaluate camera, management software and storage technologies.

2.1 Existing network environment

The overall solution will leverage the existing network infrastructure and any necessary network upgrades must be included in the Bid. Milwaukee County reserves the right to purchase any proposed equipment by leveraging existing state contracts and price agreements. The facility is connected to the Milwaukee County WAN over a 1 GB backbone using Cat6 cabling, and Cisco networking equipment. Fiber connects all buildings back to each of 8 wiring closet. Selected vendor will be responsible for ensuring any proposed network changes can support the surveillance solution proposed. Any proposed switches must be Cisco enterprise class.

2.2 Camera Management System

The county reviewed the leading video management solutions and selected the OnSSI NetEVS IP video management solution, which is also used at other facilities. The county will not consider substitutions.

Cameras will mainly be viewed at the south facility in Master Control and elevated work station (EWS), but viewing of cameras will be capable from external positions as deemed necessary by the department.

2.3 Description of Facility

Cameras will be installed to cover the following locations:

FML Building

- Dorms
- Kitchen
- Entrance
- Weld shop
- Print shop
- Classroom

Acc North Building

- Dorms
- Hallways
- Laundry
- Gym
- Classrooms
- Chapel
- Clinic
- Infirmary
- Maintenance shops and offices

Acc South Building

- Dorms
- Hallways
- Kitchen
- Bakery
- Gym
- Classrooms
- Booking
- Property
- Commissary
- Dining halls
- Maintenance shops and offices
- Some general purpose rooms

Outside

- Perimeter fence line (mounted on building)
- Parking Lots

Outside Rec Areas

3 Requirements

Interested and qualified vendors that can demonstrate their ability to deliver and install a solution meeting the requirements as specified in this document are invited to submit a bid. Vendor should

have at least five years of industry experience, and have at least three installations in jail or correctional facilities of the same size or larger.

3.1 Vendor Requirements

Vendors responding to this bid must meet the minimum qualifications defined below. Milwaukee County will solely determine that a bidder meets these requirements based on the information submitted in the bid response.

3.1.1

OnSSI EVS certified integrator. Vendor must employ on this project, at least one individual who has achieved this certification and has been certified for at least 3 years.

3.1.2

Installation shall be performed by a qualified security integrator with a minimum 3 professional references of other jail or correctional facilities of similar size and scope of project. Reference documentation with dates of service MUST be provided with the bid.

3.1.3

The selected vendor must provide a plan for service, support and demonstrate the ability to provide remote service and support. The selected vendor must demonstrate experience in supporting systems using the OnSSI management software and similar physical equipment.

3.1.4

Vendor must provide documentation of completed AXIS camera manufacturer training and certification.

3.1.5

Awarded vendor must provide a minimum of 2 days of onsite training after installation.

3.1.6

Vendor MUST submit line item pricing for all equipment, rental equipment, subcontractors, etc. in the bid packet.

3.2 Quality Assurance

3.2.1

All equipment, unless otherwise stated herein, shall carry a manufacturer's warranty of one year covering parts and labor and include a one-year advanced replacement program.

3.2.2

The installing contractor shall be the primary contact for warranty responsibility for all equipment, material and work furnished and installed under this specification.

3.2.3

Bidder will include the anticipated wiring costs to meet the needs of this project assuming 300 cameras with an average cable length of 75 feet. Cost shall include all labor and materials related to installing wire runs to each camera and server, conduit installation, cabling, connectors, and miscellaneous installation supplies.

3.2.4

All necessary network upgrades must be included in this Bid. This will include routers, switches, racks, connectors, etc, and any necessary professional services to setup or configure the network equipment. The county reserves the right to leverage existing state contracts or price agreements for all required network equipment and professional services to install this equipment.

3.2.5

Vendor is responsible for identifying any necessary hardware/software requirements to meet the needs of the proposed solution, and must be included in the proposal with estimated costs. The county reserves the right to leverage existing state contracts and price agreements to procure any computer and server hardware/software necessary for this project.

3.2.6

Prices must include delivery to 8885 S. 68th St., Franklin, WI 53132.

3.2.7

Payment is contingent upon final product meeting bid specifications.

3.2.8

Upon request of the Milwaukee County Sheriff's Office, bidders must furnish satisfactory evidence of their ability to furnish products or services in accordance with the terms and conditions of these specifications. The Milwaukee County Sheriff's Office reserves the right to make the final determination as to the bidder's ability.

3.2.9

Purchase of bid items is not guaranteed and may be contingent upon budget availability.

3.3 Community Business Partners DBE Utilization

3.3.1 General Information

In keeping with the spirit of Milwaukee County ordinance 32.25(7)(E), the Proposer shall ensure that DBE's (Disadvantaged Business Enterprises) have the maximum opportunity to participate in this project. **A seventeen (17) percent participation rate goal has been set.**

Proposers should include and will be evaluated on their philosophy and approach to include DBE participation as a part of the scope of their services.

Milwaukee County reserves the right to give credit to the Proposer that submits the best DBE Utilization Plan.

3.3.2 Disadvantaged Business Enterprise (DBE) Requirements

1. The successful contractor/service provider shall comply with CFR 49 Part 23 and 26 and Chapter 42 of the Milwaukee County Ordinances, which requires Good Faith Efforts (GFE) to achieve participation of certified Disadvantaged Business Enterprise (DBE*) firms on all USDOT and Milwaukee County funded contracts with a DBE goal. In accordance with this Milwaukee County policy and USDOT requirements, the contractor/service provider shall ensure that DBEs have an opportunity to participate in this contract.

During Solicitation Process

2. The Community Business Development Partners (CBDP) Office of Milwaukee County will make the determination that a contractor/service provider has made a good faith effort (GFE) to achieve the established DBE participation goal by doing either of the following:
 - a. Show evidence that it has met the DBE participation goal by submitting a complete Commitment to Subcontract with DBE Firms (DBD-014 form) with their proposal; or
 - b. Documents that it made good faith efforts to meet the DBE participation goal, even though it did not succeed in achieving it. In this case, the contractor/service provider must submit the Certificate of Good Faith Efforts (DBD-001 form) and all relevant documentation with their proposal.
3. Contractors/service providers should note that for the purpose of determining compliance with DBE requirements, only DBEs that have been certified by the State of Wisconsin Unified Certification Program (UCP) prior to the proposal due date may be listed on the Commitment to Subcontract with DBE Firms form and counted towards the DBE requirements. If you need assistance related to certified DBE firms, contact the CBDP Office at (414) 278-4747.
4. The efforts employed by the contractor/service provider should be those that one could reasonably expect to be taken if the contractor/service provider were actively and aggressively trying to obtain DBE participation sufficient to meet the DBE contract goal. Mere pro forma efforts are not good

* The term "DBE" means small business concerns known as Disadvantaged Business Enterprise (DBE) firms owned at least 51% by socially and economically disadvantaged individuals, and certified by the State of Wisconsin UCP under CFR 49 Part 26.

faith efforts to meet the DBE participation contract goal. (49 CFR §26.53 and Appendix A to 49 CFR Part 26, which provides guidance regarding GFE).

5. In the event the CBDP Office determines that the contractor/service provider has failed to meet the GFE requirements, the contractor/service provider is entitled to appeal this determination. The provisions of 49 CFR §26.53(d) apply to such an appeal. A request for administrative reconsideration must be sent within three (3) calendar days of receiving written notice of the failure to meet the GFE requirement. The request should be sent to:

CBDP Office
City Campus, Room 830
2711 West Wells Street
Milwaukee, WI 53208

6. Contractor/service provider must submit with its proposal, the Subcontractor/Supplier Information Sheet (DBD-002 form); a complete Commitment to Subcontract with DBE Firms (DBD-014 form); or if the contractor/service provider is not able to meet the DBE goal, a complete Certificate of Good Faith Efforts (DBD-001 form) and all relevant documentation.
7. When evaluating a contractor/service provider's proposed DBE commitment (**DBD-014 form**), Milwaukee County reserves the right to request any documentation from both the contractor/service provider and the listed DBE subcontractors. If the information requested is not submitted by the contractor within the time specified for such submission, Milwaukee County may determine the contractor/service provider to be non-responsive and thereby remove them from further consideration for contract award.

Following Contract Award

8. The contractor/service provider shall prepare and submit accurate and timely forms and reports on DBE utilization after contract award. These shall include, but not be limited to DBE Utilization Reports, and other forms as directed. Failure to submit forms and reports as prescribed herein, may result in delay of payments, or other sanctions deemed appropriate by the County, including those listed under Section (9), below.
9. When evaluating the performance of this contract after contract execution, Milwaukee County reserves the right to conduct compliance reviews and request, both from the contractor/service provider and DBE subcontractor(s), documentation that would indicate level of compliance. If the contractor/service provider is not in compliance with the specifications, the County will notify the contractor/service provider in writing of the corrective action that will bring the contractor/service provider into compliance. If the contractor/service provider fails or refuses to take corrective action as directed, Milwaukee County may take one or more of the actions listed below:
 - a. Terminate or cancel the contract, in whole or in part.
 - b. Remove the contractor/service provider from the list of qualified consultant/service providers and refuse to accept future proposals for a period not to exceed three (3) years.

- c. Impose other appropriate sanctions, including withholding any retainage or other contract payments due which are sufficient to cover the unmet portion of the DBE contract commitment, where the failure to meet the DBE contract commitment is the result of a finding by the CBDP Office of consultant/service provider's bad faith.
 - d. If the contractor/service provider has completed its contract, and the DBE contract commitment was not met due to an absence of good faith on the part of the contractor/service provider as determined under 49 CFR Part 26, the parties agree that the proper measure of damages for such non-compliance shall be the dollar amount of the unmet portion of the DBE contract commitment. The County may in such case retain any unpaid contract amounts and retainage otherwise due the contractor/service provider, up to the amount of the unmet DBE contract commitment. If insufficient funds remain in the contract account to compensate the County up to that amount, Milwaukee County may bring suit to recover damages up to the amount of the unmet commitment, including interest at the rate of 12% annually, plus the County's costs, expenses and actual attorney's fees incurred in the collection action.
10. **DBE Contract Goal:** Contractor/service provider shall utilize DBE firms to a minimum of the specified DBE contract goal. The DBE participation goal relative to contract award shall be based upon the approved Milwaukee County Commitment to Subcontract with DBE Firms (DBD-014 form). Contractor/service providers receiving additional work on the contract in the form of addendum, etc. shall be expected to increase DBE participation proportionally.
11. Contractor/service provider shall be credited for expenditures to DBE firms toward the requirements, if all of the identified scope of work has a commercially useful function in the actual work of the contract and is performed directly by the listed certified DBE firm. The CBDP Office through the application of 49 CFR §26.55(c) will be responsible for the determination and evaluation of whether or not the firm is performing a commercially useful function on this project.
12. Contractor/service provider is required to notify the CBDP office if their DBE subcontractors will further subcontract out work on this project. Credit will be given based on actual participation by DBE firms.
13. Listing a DBE on the Commitment to Subcontract with DBE Firms Form shall constitute a written representation and commitment that the contractor/service provider has communicated and negotiated directly with the DBE firm(s) listed, and that it will use the listed firm(s). If awarded the contract, the contractor/service provider will enter into a subcontract agreement with the DBE firm(s) listed on the Commitment to Subcontract with DBE Firms form for the work and price set forth thereon. This agreement must be submitted to the CBDP Office within seven (7) days from the Notice to Proceed.
14. Contractor/service provider must maintain DBE participation and performance logs. If the DBE firm(s) cannot perform, or if the contractor/service provider has a problem in meeting the DBE goal, or any other problem relative to the DBE goal requirement, the contractor shall immediately contact the CBDP Office at (414) 278-5248. If needed, contractor must submit a written request for substitution, including the reason for the request and the log. Approval must be obtained prior to making substitutions. Any difference in the cost occasioned by such substitution shall be borne by the contractor.

15. DBE Utilization Reports/Payment Request after Contract Award. DBE Utilization Reports (**DBD-016 form**) must be submitted with payment request by the contractor/service provider after contract award. These reports must cover the period from the start of the project to the end of the period covered by the payment request being submitted or the period since the last payment request. The reports must be submitted even if no DBE activity took place during the period being reported. The County Project Manager/Administrator will reject payment request that are not in compliance with this section.
16. Final Payment Verification. The contractor/service provider must submit the "DBE Subcontractor Payment Certification" form (**DBD-018 form**) and the final DBE Utilization Report along with their Final Payment Request. The County Project Manager/Administrator will not process the Final Payment Request if these reports are not submitted.
17. Milwaukee County reserves the right to waive any of these specifications when it is in the best interest of the County and with the concurrence of the CBDP Office.

4 Scope of Work

4.1 General

4.1.1

Furnish engineering, labor, materials, apparatus, tools, equipment, transportation, temporary construction and special or occasional services as required to make a complete working security system installation, as described in these specifications.

4.1.2

The installation of all system components shall be carried out under the direction of qualified personnel. Appearance shall be considered as important as mechanical and electrical efficiency. Workmanship shall meet or exceed industry standards.

4.1.3

Any debris resulting from vendor's installation of surveillance system must be promptly removed and disposed of by the vendor

4.1.4

Consult other vendors; determine the extent and character of related work and properly coordinate work specified herein with that specified elsewhere to produce a complete and operable system.

4.1.5

Provide all labor, materials, equipment and training necessary for complete installation of the new IP Digital Video Surveillance System for The Milwaukee County Sheriff's Office

4.1.6

This project shall be an all IP based system.

4.1.7

All costs for installation of complete, functional system must be included in the bid price. Space has been provided on the Bid Form for the amount(s) of these miscellaneous charges.

4.1.8

Any costs that have not been addressed within the specifications or listed on the following Bid Form must be described in the Other Costs line item, with a detailed description.

4.1.9

All charges and fees must be listed on the following Bid Form. Otherwise, such charges and fees can not be paid.

4.2 Cameras

4.2.1

Install a new video surveillance system at the Milwaukee County Correctional Facility South, to include the purchase, installation, and configuration of up to 300 HD quality IP cameras (makes and models listed in the bid list), including any necessary installation equipment and accessories. Bids on items or materials manufactured by other manufacturers will not be considered. No substitutes.

4.2.2

Each camera must be vandal resistant.

4.3 Video Management System

Milwaukee County has selected the Video Management software OnSSI EVS for this project. Vendor will provide the licensing, installation and configuration costs as specified. Proposing vendor must be a certified OnSSI integrator in order to qualify for special pricing from the vendor.

4.4 Cabling and Infrastructure

All work shall be performed in accordance with the following Codes and industry Standards, unless noted otherwise:

- NFPA 70 – National Electrical Code, current version adopted by local or State AHJ.
- TIA/EIA 568-B – Commercial Building Telecommunications Cabling Standard, current version.
- TIA/EIA 569-B – Commercial Building Standard for Telecommunications Pathways and Spaces, current version.
- TIA/EIA 606-A – Administration Standard for Commercial Telecommunications Infrastructure, current version.
- J-STD-607-A – Commercial Building Grounding (Earthing) and Bonding Requirements for Telecommunications, current version.
- IEEE 241 - IEEE Recommended Practice for Electric Power Systems in Commercial Buildings, pertaining to communication systems.

All Cat 6 Cabling used in this project must be manufactured by General Cable and match the jack performance.

The wiring contractor must be included in the Panduit PCI (Panduit Certified Installer) program. The contractor is responsible for workmanship and installation practices in accordance with the Panduit Certified Installer Program (PCI).

All wiring terminations must use the Panduit PanNet connector (see attached specifications)

The Contractor shall be responsible for:

- Providing all additional materials, and the necessary labor and services required to ensure all components of the system are completely installed in accordance with the intent of the Bid Documents.
- Furnishing and installing all incidental items not actually shown or specified, but which are required by good practice to provide complete functional systems.
- Coordinating all activities with the overall construction schedule.
- Developing bill of materials, perform material management and efficient use of the materials whether they are issued by the Contractor, the owner or purchased by the Contractor.
- Ensure materials in excess of those required to complete the project are kept in their original condition and packaging for restocking.
- Certified Installer must register project with Panduit and must provide a warranty on the installation workmanship & testing for a length of twenty-five (25) years.
- The contractor shall be experienced in all aspects of this work and shall be required to demonstrate direct experience on recent systems of similar type and size. The contractor shall own and maintain tools and equipment necessary for successful installation and testing of optical, Category 5e, Category 6 and Category 6a premise distribution systems and have personnel who are adequately trained in the use of such tools and equipment.

4.4.1

Wiring installer(s), whether bidder or subcontractor must have previous experience working in a jail or correctional facility of similar size or larger.

4.4.2

Wiring will be quoted based on an hourly rate and supplies at cost with a percent markup. All wiring will be done using CAT6e.

4.4.3

Final cable termination to make camera connection must be included in the Camera installation services and not be included in the cabling cost.

4.5 Workstations

All workstations will be Lenovo computers. The vendor should include recommended equipment and costs. Milwaukee County reserves the right to purchase all recommended equipment by leveraging existing contracts and pricing agreements.

4.6 Video Storage

Milwaukee County evaluated several iSCSI storage solutions and selected Intransa to meet the storage needs of this project. Bidder will be responsible for recommending and installing the Intransa appliances and storage capacity necessary to meet county needs. Storage requirements will be based on the following

- *(270) 1 MP cameras and (30) 3 MP cameras*
- *15 fps*
- *H.264 compression*
- *30 day video retention*
- *60% motion recording 24/7*

4.7 Servers

The county will utilize Intransa storage appliances, which have the ability to host VMware virtual servers on each appliance. Therefore, the county does not see the need for any physical servers for this project. OnSSI Video Management servers will be setup on the Intransa virtual servers as needed. It is the responsibility of the bidder to recommend the type, size, and number of Intransa devices to meet the needs of this project.

4.8 Encoding for 57 existing analog cameras

The south facility has 57 existing analog cameras and will utilize backend encoders to convert these cameras to IP cameras that can then be managed with the new system. Vendor will include the cost of their recommended encoder(s) as well as the costs to install and configure.

5 Bid Attachments

- A. Panduit Specification Sheet
- B. Certificate of Good Faith Efforts (DBD-001 form)
- C. Subcontractor/Supplier Information Sheet (DBD-002 form)
- D. Commitment to Subcontract with DBE Firms (DBD-014 form)
- E. DBE Utilization Reports (DBD-016 form)
- F. DBE Subcontractor Payment Certification form (DBD-018 form)

Panduit Specification Sheet

Mini-Com® TX6™ PLUS UTP Jack Modules

PANDUIT® SPECIFICATION SHEET

specifications

Category 6/Class E, 8-position, UTP jack module shall terminate 4-pair, 22 – 26 AWG, 100 ohm unshielded twisted pair cable and shall not require use of a punchdown tool. UTP jack modules shall use a forward motion termination method to optimize performance by maintaining cable pair geometry while eliminating conductor untwist. The termination cap shall be color-coded white to designate Category 6 performance and shall include a universal label coded for T568A and T568B wiring schemes.



technical information

Category 6/Class E channel and component performance:	Exceeds channel requirements of ANSI/TIA-568-C.2 Category 6 and ISO 11801 Class E standards at swept frequencies 1 to 250 MHz
	Exceeds component requirements of ANSI/TIA-568-C.2 Category 6 and ISO 11801 Class E standards at swept frequencies 1 to 250 MHz
FCC and ANSI compliance:	Meets all applicable ANSI/TIA-969-A requirements; contacts plated with 50 microinches of gold for superior performance
IEC compliance:	Meets IEC 60603-7
RoHS compliance:	Compliant
PoE compliance:	Meets requirements of IEEE 802.3af and IEEE 802.3at for PoE applications
UL rated:	UL 1983 approved
Conductor termination range:	Wire cap compatible with 22 – 26 AWG solid or stranded cable with conductor insulation diameters of 0.060 in. max. and overall cable O.D. 0.200 in. to 0.330 in.

key features and benefits

100% performance tested	Confidence that each jack module will deliver the critical electrical performance requirements
Utilizes enhanced Giga-TX™ Technology	Optimizes performance by eliminating conductor untwist and reduces installation time and expense
Improved termination cap	Conductor retention slots simplify jack module termination
Modular	UTP jack modules snap in and out of all Mini-Com® Faceplates, Modular Patch Panels and Surface Mount Boxes for easy moves, adds, and changes
True strain relief	Controls cable bend radius for long term installed performance
Individually serialized	Marked with quality control number for future traceability
RJ45 interface	Industry standard interface provides a quick and easy plug and play connection to RJ45 patch cords; backwards compatible
Identification	Can be clearly identified with optional labels and icons for port identification
Keyed version available	Color-specific keys with positive and negative keying features mechanically and visually distinguish connections to prevent unintentional mating with unlike keyed or non-keyed modular plugs, offering network design flexibility, versatility, accommodating discrete networks for enhanced security
Termination tools (optional)	EGJT termination tool ensures conductors are fully terminated by utilizing a smooth forward motion without impact on critical internal components for maximum reliability; TGJT termination tool ideal for high volume installations
Block out device (optional)	Provides a simple and secure method to control access to data ports while not in use
Shuttered version (optional)	Integrated shuttered door keeps out dust and debris of unmated RJ45 jack modules

applications

Mini-Com® TX6™ PLUS UTP Jack Modules are a component of the TX6™ PLUS UTP Copper Cabling System. This end-to-end system is interoperable and backwards compatible, providing design flexibility to protect network investments well into the future. With certified performance to the ANSI/TIA-568-C.2 Category 6 and ISO 11801 Class E standards, this system is ideal for today's high performance workstation applications. With certified performance to the ANSI/TIA-568-C.2 Category 6 and ISO 11801 Class E Edition 2.1 standards, these systems will support the following applications:

- Ethernet 10BASE-T, 100BASE-T (Fast Ethernet), 1000BASE-T (Gigabit Ethernet)
- 155 Mb/s ATM, 622 Mb/s ATM, 1.2 Gb/s ATM
- Token Ring 4/16
- Digital video and broadband/baseband analog video
- Voice over Internet Protocol (VoIP)

www.panduit.com

TX6™ PLUS UTP Copper Cabling Systems

Mini-Com® TX6™ PLUS UTP Jack Modules

Jack module:	CJ688TGIW*
Shuttered jack module:	CJD688TGIW*
Keyed jack module:	CJK688TG**

TX6000™ UTP Copper Cable

Plenum:	PUP6004***
Riser:	PUR6004***
LSZH:	PUL6004***
CM:	PUC6004***

TX6™ PLUS UTP Patch Cords

CM (foot lengths):	UTPSP*MY
CM (meter lengths):	UTPSP**MY
LSZH (meter lengths):	UTPSL**MY

Mini-Com® Angled Modular Patch Panels

24-port, 1 RU:	CPPLA24WBLY
48-port, 2 RU:	CPPLA48WBLY

Mini-Com® Flat Modular Patch Panels

24-port, 1 RU:	CPPL24WBLY
48-port, 2 RU:	CPPL48WBLY

For additional modular patch panels and punchdown patch panels, visit www.panduit.com

Tools and Accessories

Jack module termination tool:	EGJT or TGJT
Wire stripping tool:	CWST
Wire stripping tool:	CJAST
Cable dust cap:	MDC-C
Block out device:	PSL-DGJB-***
Phone icons:	CIDIW-C+
Data icons:	CIDIW-C+

*To designate color other than IW (Off White), replace IW suffix with EI (Electric Ivory), IG (International Gray), AW (Arctic White), BL (Black), BU (Blue), RD (Red), YL (Yellow), GR (Green), OR (Orange), or VL (Violet).
**To designate color, add suffix: BL (Black), BU (Blue), RD (Red), YL (Yellow), GR (Green), or OR (Orange). Each color representing a different keyed configuration.
***To designate color, add suffix BU (Blue) or WH (White). For additional cable colors, contact customer service.

*For lengths 1 to 20 feet (one foot increments) and 25, 30, 35, 40 feet, change the length designation in the part number to the desired length. For standard cable colors other than Off White, add suffix BL (Black), BU (Blue), RD (Red), YL (Yellow), GR (Green), OR (Orange), or VL (Violet). For example, the part number for a blue 15-foot patch cord is UTPSP15BLY.
**For lengths 1 to 10 meters (one meter increments) and 2.5, 15, 20, 25, 30, 35, 40 meters, change the length designation in the part number to the desired length. For standard cable colors other than Off White, add suffix BL (Black), BU (Blue), RD (Red), YL (Yellow), GR (Green), OR (Orange), or VL (Violet). For example, the part number for a blue 15-meter patch cord is UTPSP15MBLY.

***To designate color other than Red, add suffix Black (BL), Blue (BU), Yellow (YL), Green (GR), Orange (OR), Off White (IW) or International Gray (IG) at the end of the part number. 100/packaging.
+To designate color other than IW (Off White), replace IW with EI (Electric Ivory), IG (International Gray), BL (Black), BU (Blue), RD (Red), YL (Yellow), GR (Green), OR (Orange), or VL (Violet) in the part number. 100/packaging.
Contact customer service for bulk packaged and/or keyed jack modules and patch cords.

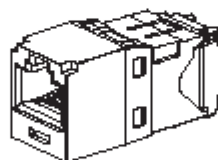
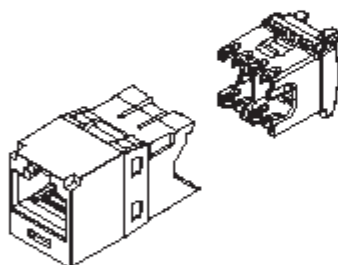
Mini-Com® TX6™ PLUS UTP Jack Modules

Test Results

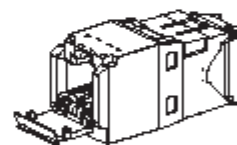
Mechanical Test	Test Method	Measurement	Typical Test Results
Normal Force	—	Load (grams)	>100
Vibration	IEC 512-6d	Circuit Resistance (mOhms)	<40
Shock	IEC 512-6c	Contact Disturbance (microseconds)	<5
Durability	IEC 512-9a	Circuit Resistance (mOhms)	<40
Mating/Un-Mating	IEC 512-19b	Mating Force (N)	<20
		Un-mating Force (N)	<20
Termination Cycles	IEC 352	Number of Cycles	>20

Electrical Test	Test Method	Measurement	Typical Test Results
Low Level Circuit Resistance	IEC 512-2a	Resistance (mOhms)	<20
Dielectric Withstand Voltage	IEC 512-4a	1000 V, 1 minute	Passed
Insulation Resistance	IEC 512-3a	Resistance (MOhms)	>500

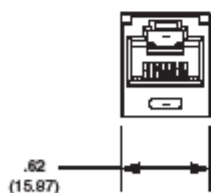
Environmental Test	Test Method	Measurement	Typical Test Results
Temperature Life	IEC 512-9b	Circuit Resistance (mOhms)	<40
Humidity	IEC 512-11c	Circuit Resistance (mOhms)	<40
Thermal Shock	IEC 512-11d	Circuit Resistance (mOhms)	<40
Climatic Sequence	IEC 512-11a	Circuit Resistance (mOhms)	<40
Flowing Mixed Gas Corrosion	IEC 512-11g	Circuit Resistance (mOhms)	<40



Jack Module



Shuttered Jack Module



Dimensions are in inches (Dimensions in parenthesis are metric)

WORLDWIDE SUBSIDIARIES AND SALES OFFICES

PANDUIT CANADA
Markham, Ontario
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Certificate of Good Faith Efforts (DBD-001 form)



MILWAUKEE COUNTY COMMUNITY BUSINESS DEVELOPMENT PARTNERS (CBDP) OFFICE

CERTIFICATE OF GOOD FAITH EFFORTS

The intent of this certification is to document the good faith efforts implemented by the contract bidder/respondent in soliciting and utilizing DBE firms to meet DBE participation requirements. This certificate will assist Milwaukee County in determining whether the contract bidder/respondent has implemented comprehensive good faith efforts.

Failure to implement "good faith" efforts to the satisfaction of Milwaukee County could result in the rejection of the proposal.

I, _____, do hereby acknowledge that I am the _____ of _____, who has been identified as a bidder/respondent on the following Milwaukee County Project:

Project No.	Project Title	Total Contract Amount	DBE Percentage	
			Goal	Pledged

Provide a brief summary on why you believe your firm is unable to meet the DBE participation goals on this project (Attach additional pages if necessary.)

I hereby certify that I have utilized comprehensive "good faith" efforts to solicit and utilize DBE firms to meet the DBE participation requirements of this contract proposal, as demonstrated by my responses to the following questions:

A. Identifying Subcontract Work Items

Bidder/respondent are encouraged to select portions of work to be subcontracted in a manner which will increase the likelihood of meeting DBE goals. In selecting work to be subcontracted, bidder/respondent will consider, where appropriate, breaking down contracts into economically feasible units to facilitate DBE participation.

1. Which portion(s) or section(s) of the contract proposal, in terms of the nature of work, were selected to be subcontracted to DBE firms (or broken down into economically feasible units to facilitate DBE participation)?

B. Notifying DBE Firms of Contracting Opportunities

2. In the table below, indicate which firms received written notification of work items to be subcontracted. In the appropriate space, also indicate when firms received subsequent telephone solicitations. Please attach additional page(s) so that all companies contacted are listed. (Attach photocopies of all written solicitations to DBE firms to this certificate.)

Company Contacted	Date of Written Notification	DBE (Yes/No)	Date of Follow-up Telephone Call

3. Identify publications in which announcements or notifications were placed and published, if any. (Attach copies of proof of each announcement or notification.)

Published Announcement/Publication (please describe)	Date

4. Identify DBE associations or organizations that received written notifications, including dates of all notifications. Provide name of person and date of follow-up call. If no follow-up calls made, explain why not. (Attach copies of letters sent as proof of notification.)

DBE Association/Organization	Date of Notification	Contact Person	Date of Follow-Up Call

5. Were the services of the Milwaukee County's Community Business Development Partners (CBDP) Office used to assist in the recruitment of DBE firms?

Yes _____ No _____

Contact was made by: telephone _____ written correspondence _____

Date contacted: _____ Person Contacted: _____

C. Providing DBEs With Assistance

6. Explain any efforts undertaken to provide DBE firms with adequate information about project scope of work and requirements of the contract:

7. Describe any efforts undertaken to assist interested DBE firms in obtaining lines of credit or insurance required by Milwaukee County or the contractor:

8. Describe any other efforts initiated to provide special assistance to DBE firms interested in participating in the project.

D. Soliciting Proposal/Quotes From Interested DBE Firms

Bidder/respondent must solicit proposal/quotes in good faith with interested DBE firms. Quotes, proposals, and bids from interested DBE firms must not be rejected by contractors without sound justification.

9. Indicate in the table below which DBE firms submitted quotes on the contract proposal. Also, provide a brief explanation of why any of these DBE project quotes were rejected. Please attach additional pages(s) if necessary.

Name/Address/Contact Person of DBE Firm	Work Quoted and Explanation for Rejecting Quotes

10. Other comments you want Milwaukee County to consider:

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NOTE: The information requested as set forth above is the minimum information required by Milwaukee County's Community Business Development Partners (CBDP) Office and CBDP may request the Contractor to submit information on certain other actions taken to secure DBE participation in an effort to meet the goals.

AFFIDAVIT

STATE OF WISCONSIN)

) ss

COUNTY OF _____)

The undersigned, having been first duly sworn, says that the information given in the above certificate is true and correct to the best of his/her knowledge and belief.

Signed: _____

Authorized Representative

Subscribed and sworn to before me:

This _____ day of _____, 20 ____.

Notary Public

My commission expires _____, 20 ____.

Subcontractor/Supplier Information Sheet (DBD-002 form)



FIRM: _____

Project No: _____

SUBCONTRACTOR/CONSULTANT/SUPPLIER INFORMATION SHEET

Pursuant to Federal Regulations, Milwaukee County is required to collect information on subcontractor/consultants/suppliers submitting quotes to contractor/service providers that submit proposals on Milwaukee County projects. Provide the following information on DBE and non-DBE bids or quotes. **Submit this information with proposal.**

(✓)*	Name	DBE Yes/No	Address	Date Firm Established	Annual Gross Receipts (**)	Work or Service to be Performed

(*) Check if this sub-consultant's quote has been used in your proposal.

(**) Annual Gross Receipts: A: Less than \$250,000 B: \$250,000 to \$500,000 C: \$500,000 to 1 million
D: \$1 million to \$5 million E: \$5 million to \$15 million F: More than \$15 million

Note: Information gathered on the background and financial status of firms is protected from disclosure.

Commitment to Subcontract with DBE Firms (DBD-014 form)

COMMITMENT TO SUBCONTRACT WITH *DBE* FIRMS

PROJECT No.: _____ PROJECT TITLE: _____

TOTAL CONTRACT AMOUNT^(*) \$ _____ DBE Goal: _____ (%)

Subcontract Agreements with DBE firm(s) MUST be submitted Within Seven (7) Days from Receipt of Notice to Proceed

A	V	Name of DBE ^(**) Firm(s)	Scope of Work Detailed Description	Subcontract Amount	% of Total Contract

(If using more DBE firms, include them in separate notarized form)

Total \$ Amount of DBE _____ Total % _____

I certify that the identified services and costs were quoted by the DBE firm(s). If awarded this contract, our firm _____ (Phone No. _____) intends to enter into subcontract agreements with the DBE firm(s) listed for the services specified. The information on this form is true and accurate to the best of my knowledge. I further understand that falsification, fraudulent statement or misrepresentation will result in appropriate sanctions under applicable Local, State or Federal laws.

Signature of Authorized Representative _____ Print/Type Name of Authorized Representative _____ Date _____

Subscribed and sworn to before me this _____ day of _____, 20____

Signature of Notary Public _____ State of _____, My Commission expires _____.

[SEAL]

* Exclude all allowances

** These may include any firms certified as DBEs by the State of Wisconsin UCP prior to the bid due date.

FOR CDDP USE ONLY: (A) \$ _____ Total % _____
(V) \$ _____

CDDP APPROVAL:

Signature Date

DBE Utilization Reports (DBD-016 form)

SUBMIT WITH ALL PAYMENT REQUEST

DISADVANTAGED BUSINESS ENTERPRISE "DBE" UTILIZATION REPORT*

NAME OF FIRM _____ TELEPHONE NO. () _____
ADDRESS _____ CITY _____ STATE _____ (ZIP CODE) _____
PROJECT TITLE _____ PROJECT # _____
TOTAL CONTRACT \$ AMT _____ TOTAL CONTRACT PAYMENT YTD \$ _____ CONTRACT % COMPLETE _____
TOTAL DBE CONTRACT \$ AMT _____ TOTAL DBE PAYMENT YTD \$ _____ DBE % COMPLETE _____**
COUNTY PROJECT/CONTACT PERSON _____ TELEPHONE NO. _____
REPORT FOR THE PERIOD FROM: _____ TO: _____ 200 _____ FINAL REPORT: () Yes () No

List Disadvantaged Business Enterprise firms utilized in connection with the above Project, either as subcontractor or suppliers in the last period.

NAME OF DBE FIRM	SUB-CONTRACT \$ AMOUNT	WORK/SERVICE PERFORMED	AMT. OF PAYMENTS THIS PERIOD	AMT. OF PAYMENTS TO DATE	REMAINING BALANCE

Report Prepared by: _____ Approved by: _____
(Name & Title)

DBE Subcontractor Payment Certification form (DBD-018 form)

**MILWAUKEE COUNTY
COMMUNITY BUSINESS DEVELOPMENT PARTNERS OFFICE
DBE PAYMENT CERTIFICATION**

"DBE" PAYMENT CERTIFICATION

This form must be attached to the final Certificate for Payment Request by Primary Contractor/Consultants.

County Department Issuing Contract/Project _____

Contract/Project Title _____

DBE Firm: _____

Project No. _____ Project Name: _____

***SECTION (A) DBE FIRM COMPLETES IF FINAL PAYMENT HAS BEEN RECEIVED**

I hereby certify that our firm received \$ _____ total payment for subcontract work on the above referenced Milwaukee County project or contract.

Date _____, 200 _____

***SECTION (B) BOTH PRIME CONTRACTOR AND DBE FIRM COMPLETE IF FULL
PAYMENT HAS NOT BEEN MADE TO DBE FIRM AND A
BALANCE REMAINS TO BE PAID.**

I hereby certify that our firm has paid to date a total of \$ _____ and will pay the balance of \$ _____
to _____ upon receipt of payment from
Milwaukee County for subcontract work on the above referenced project.

Date _____, 200 _____

(Prime Consultant/Contractor's Signature) (Print Name & Title)

(DBE Subconsultant/Subcontractor Signature) (Print Name & Title)